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Docket No.: ST04002USU (244-US-U1)

IN THE SPECIFICATION

Between the end of the BACKGROUND on page 2 and the begging of the Brief Description of the Drawings, please add the following text:

SUMMARY

Systems consistent with the present invention provide an approach to receiving satellite data in an electronic system, where the electronic system may have a central processing unit (CPU) and a signal processing system that may be configurable to process satellite signals in a satellite-based positioning system and is in signal communication with the CPU. The signal processing system may have a plurality of subsystems, including an input sample subsystem and at least one other subsystem, where the input sample subsystem may be able receive satellite data and produce input data samples, and where at least one other subsystem may be a signal processing subsystem that produces coherent data, and a fast Fourier transform (FFT) subsystem that processes the coherent data and produces noncoherent data. The signal processing system may also include a memory device configurable into a number of configurations dependent upon an operational mode of the signal processing system, where the memory device is configurable into regions with each region storing a type of data, and each region is accessed by at least one of the other subsystems, and wherein at least one of the regions stores data words from the CPU that determine the configuration of the memory device.

Other systems, methods, features, and advantages of the invention will be or will become apparent to one with skill in the art upon examination of the following figures and detailed description. It is intended that all such additional systems, methods, features and advantages be included within this description, be within the scope of the invention, and be protected by the accompanying claims.